From the INTERNATIONAL SEARCHING AUTHORITY

To: PETER D. MCDERMOTT	PCT				
BANNER & WITCOFF, LTD. 28 STATE ST. TWENTY EIGHTH FLOOR BOSTON, MA 02109-1775 JUN 1 0 20	NOTIFICATION OF TRANSMITTAL OF				
BANNER & WIT	COFF (PCT Rule 44.1)				
BOSTON	Date of Mailing (day/month/year)				
Applicant's or agent's file reference 005092.00060	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US03/38707	International filing date (day/month/year) 05 December 2003 (05.12.2003)				
Applicant PROTASIS	·				
	ch report has been estable 1 and is transmitted herewith.				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	nims of the international application (see Rule 46):				
When? The time limit for filing such amendments is international search report.	normally two mouths from the date of transmittal of the				
Where? Directly to the International Bureau of WIPC 1211 Geneva 20, Switzerland, Facsimile No.), 34, chemin des Colombettes : (41-22) 740.14.35				
For more detailed instructions, see the notes on the a					
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders	What will had be be to be Duran If the				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet site	applicable time limits, Office by Office, see the PCT Applicant's				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 DOCKET					
Form PCT/ISA/220 (April 2002)	(See notes on accompanying sheet)				

BANNER & WITCOFF, LTD.
Anticle 19 Amendment due
8/8/04

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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: PETER D. MCDERMOTT	PCT						
BANNER & WITCOFF, LTD. 28 STATE ST. TWENTY EIGHTH FLOOR BOSTON, MA 02109-1775	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION						
	(PCT Rule 44.1)						
	Date of Mailing (day/month/year) 0 8 JUN 2004						
Applicant's or agent's file reference 005092.00060	FOR FURTHER ACTION See paragraphs 1 and 4 below						
International application No. PCT/US03/38707	International filing date (day/month/year) 05 December 2003 (05.12.2003)						
Applicant PROTASIS							
The applicant is hereby notified that the international sear	ch report has been established and is transmitted herewith.						
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	aims of the international application (see Rule 46):						
When? The time limit for filing such amendments is international search report.	normally two months from the date of transmittal of the						
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.), 34, chemin des Colombettes : (41-22) 740.14.35						
For more detailed instructions, see the notes on the a	i de la companya de						
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.						
	3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:						
applicant's request to forward the texts of both the	en transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.						
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.							
4. Reminders	the mill be mublished by the International Durana If the						
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.							
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.							
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.							
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.							
Name and mailing address of the ISA/US	Authorized officer						
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Alex Noguerola						
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571) 272-1300 (Samuel No. (703) 205-2230							

Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file refere 005092.00060	FOR FURTH ACTION	Report (F	Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No. PCT/US03/38707	1	International filing date (day/month/year) (Earliest) Priority D 12 May 2002 (12.05)						
Applicant PROTASIS								
This international search report according to Article 18. A cop			uthority and is transmitted to the applicant					
1 6/1	consists of a total of she ompanied by a copy of each pri		in this report.					
language in which it	was filed, unless otherwise indica	ated under this item.	basis of the international application in the					
Authority (Rule 23 b. With regard to any n	3.1(b)).	uence disclosed in the	international application furnished to this international application, the international					
contained in the in	ternational application in written	form.						
filed together with	the international application in co	omputer readable form						
furnished subseque	ently to this Authority in written f	form.						
furnished subseque	ently to this Authority in compute	r readable form.						
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
the statement that been furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has							
2. Certain claims we	Certain claims were found unsearchable (See Box I).							
	Unity of invention is lacking (See Box II).							
4. With regard to the title ,								
	the text is approved as submitted by the applicant.							
the text has been e	stablished by this Authority to rea	ad as follows:						
5. With regard to the abstract								
the text is approve	d as submitted by the applicant.							
			as it appears in Box III. The applicant may, ort, submit comments to this Authority.					
6. The figure of the drawings	to be published with the abstract	is Figure No. 1						
as suggested by the	-	_	None of the figures					
because the applica	ant failed to suggest a figure.							
because this figure	because this figure better characterizes the invention.							
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Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

				PC17US03/38/07		
Box III TEXT OF TH	Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)					
A microfluidic substrate assembly (10) inclues a substrate body (12) having at least one fluid inlet port (14). At least one microscale fluid flow channel (16) in the substrate is in fluid communication with the inlet port for transport of a fluid to be tested. The substrate body also has a plurality of sockets (20), with each of one or more sockets configures to receive an operative component (21). At least one socket is in communication with the microscale fluid flow channel.						
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Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38707

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 27/26 US CL : 204/409; 422/100 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)							
U.S. : 20	04/409,600,601,450,451; 422/100,99,68.1,70,129						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet							
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.				
X, E Y,E	US 6,699,384 B1 (LIN et al.) 02 March 2004 (02.05 and column 5, lines 20-34.	5.2004), abstract; Figures 1, 2, and 5;	1-5,7-10,12,13,31- 34,37,38,40,41,43,48, 49				
	6,14,15,16,21,51- 53,55-57,59						
X 	2-4. 34,37,43,44,48,4						
Y			3,14,35,36,45,51- 53,55-57,59				
Further	documents are listed in the continuation of Box C.	See patent family annex.					
<u></u>	pecial categories of cited documents:	"T" later document published after the inte	rnational filing date or priority				
"A" document	t defining the general state of the art which is not considered to be	date and not in conflict with the applic principle or theory underlying the inve	ention				
·	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	claimed invention cannot be red to involve an inventive step				
establish specified)	ocument which may throw doubts on priority claim(s) or which is cited to tablish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combinate						
"O" document	document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art						
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed							
Date of the actual completion of the international search Date of mailing of the international search report 0 8 JUN 2004							
18 May 2004 (18.05.2004) Name and mailing address of the ISA/US Authorized officer							
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Alex Noguerola Telephone No. (571) 272-1300							
Facsimile No. (703) 305-3230							

Form PCT/ISA/210 (second sheet) (July 1998)

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INTERNATIONAL SEARCH REPORT

tegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
X,P	US 6,632,400 B1 (BRENNEN et al.) 14 October 2003 (14.10.2003), abstract and Figures 1-5.	1,2,4,5,7-10,12,3 33,37,48,61
Y,P		3,6,13-16,21,34- 36,38,40,41,51-53, 57,59
X,P	US 2002/0124896 A1 (O'CONNOR et al.) 12 September 2002 (12.09.2002), abstract and Figures 3A, 3B, 5A-5C, 7A, 7B, and 8.	1,2,4-9,12,31- 33,37,48,61
Y,P		3,13,14,34-36,51 53,55-57,59
X,P	US 2003/0012697 A1 (HAHN et al.) 16 January 2003 (16.01.2003), abstract and Figures 2 and 4-6.	1,2,4-9,12,31- 33,37,48,61
Y,P		3,13,14,34-36,38 41,45,46,49,51-53, 57,59
Y	Derwent abstract for WO 9957310 A2 (BERNAUER) 11 November 1999 (11.11.1999).	55-57
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INTERNATIONAL SEARCH REPORT	PC1/US03/38/0/
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Continuation of B. FIELDS SEARCHED Item 3: EAST search terms: microfluid\$, removable, modul\$, plug\$	·
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Form PCT/ISA/210 (second sheet) (July 1998)